In the Claims

- 1(Original). A method of improving the reliability of peer-to-peer network downloads, comprising:
 - a) initiating a search from a client on a peer-to-peer network;
 - b) receiving a list of servers that satisfy the search;
 - c) selecting at least one of the servers from the list of servers;
- d) selecting one of a plurality of downloading systems based on a predetermined criteria; and
 - e) downloading a file using one of the plurality of downloading systems.
- 2(Original). The method of claim 1, wherein step (d) further includes the step of:
 - d1) selecting a multiple concurrent download system.
- 3(Original). The method of claim 1, wherein step (d) further includes the step of:
 - d1) selecting a multiple concatenated download system.
- 4(Original). The method of claim 1, wherein step (d) further includes the step of:
 - d1) selecting a serial concatenated download system.
- 5(Original). The method of claim 1, wherein step (d) further includes the step of:
 - d1) determining a connection speed to the at least one of the servers.

- 6(Original). The method of claim 1, wherein step (d) further includes the step of:
- d1) comparing a connection speed to the at least one of the servers to an available bandwidth.
- 7(Original). The method of claim 1, wherein step (a) further includes the steps of:
 - a1) entering a text string.
- 8(Original). The method of claim 1, wherein step (a) further includes the step of:
 - a1) entering a unique key.
- 9(Original). The method of claim 1, wherein step (a) further includes the step of:
 - a1) broadcasting a search query to the peer-to-peer network.
- 10(Original). The method of claim 1, wherein step (a) further includes the step of:
 - a1) transmitting a search query to a central server.
- 11(Original). The method of claim 1, wherein step (b) further includes the step of:
 - b1) receiving a document name.

- 12(Original). The method of claim 1, wherein step (b) further includes the step of:
 - b1) receiving a file size.
- 13(Original). The method of claim 1, wherein step (b) further includes the step of:
 - b1) receiving a source node for a file.
- 14(Original). The method of claim 1, wherein step (b) further includes the step of:
 - b1) receiving an available bandwidth at a server.
- 15(Original). A method of improving the reliability of peer-to-peer network downloads, comprising the steps of:
 - a) originating a search from a client on a peer-to-peer network;
 - b) broadcasting a search query over the peer-to-peer network;
- c) receiving a list of servers and a list of associated document names that satisfy the search query;
 - d) selecting at least one of the servers from the list of servers;
- e) determining one of a plurality of downloading systems based on a predetermined criteria; and
 - f) downloading a file.
- 16(Original). The method of claim 15, wherein step (a) further including the step of:
 - a1) entering a unique key that identifies the file.

- 17(Original). The method of claim 15, wherein step (c) further includes the step of:
 - c1) receiving a file size, a source node and a unique key.
- 18(Original). The method of claim 15, wherein step (d) further includes the step of:
 - d1) measuring a connection speed to a plurality of servers;
- d2) comparing the connection speed of the plurality of servers to an available bandwidth to the client.
- 19(Original). The method of claim 15, wherein step (e) further includes the steps of:
- e1) determining if an available bandwidth is less than a connection speed to two of the servers:
- e2) when the available bandwidth is less than the connection speed to two of the servers, selecting a serial concatenated download system.
 - 20(Original). The method of claim 19, further including the steps of:
- e3) when the available bandwidth is not less than the connection speed to two of the servers, selecting a multiple concurrent download system.
 - 21(Original). The method of claim 19, further including the steps of:
- e3) when the available bandwidth is not less than the connection speed to two of the servers, selecting a multiple concatenated download system.

- 22(Original). The method of claim 19 wherein step (e2) further includes the steps of:
 - i) starting a download from one of the list of servers;
- ii) if the one of the list of servers is interrupted during the download, selecting a second of the list of server to start a download;
- iii) requesting the download to start at a next byte after a last received byte.
- 23(Original). The method of claim 20, wherein step (e3) further includes the steps of:
 - i) starting a download from at least two of the servers;
- ii) if any of the at least two of the servers finishes the download, terminating the download for any other servers.
- 24(Original). The method of claim 21, wherein step (e3) further includes the steps of:
- i) starting a first download at a first byte of the file for one of the at least two servers:
- ii) starting a second download at a second byte of the file for a second of the at least two servers;
- iii) determining when a complete file has been downloaded by combining the first download and the second download.

- 25(Original). A method of operating a peer-to-peer network comprising the steps of:
 - a) initiating a search from a first peer to the peer-to-peer network;
 - b) receiving a list of peer servers that meet a search query;
- c) selecting one of a plurality of downloading systems based on a predetermined criteria; and
 - d) downloading a file using the one of the plurality of downloading systems.
- 26(Original). The method of claim 25, wherein step (c) further includes the steps of:
- c1) determining a connection speed to each of the peer servers on the list of peer servers;
- c2) selecting a subset of the list of peer servers based on the connection speed.
- 27(Original). The method of claim 26, wherein step (c1) further includes the step of:
 - i) receiving a test file from each of the servers on the list of servers.
- 28(Original). The method of claim 26, wherein step (c1) further includes the step of:
- i) determining an order of response receipt from each of the servers on the list of servers.
- 29(Original). The method of claim 26, wherein step (c1) further includes the step of:
 - i) pinging each of the servers on the list of servers.

- 30(Original). The method of claim 25, wherein the step (d) further includes the steps of:
- d1) when an available bandwidth is less than a two times a connection speed, selecting a server with a fastest connection speed;
 - d2) starting a download from the server with the fastest connection speed.
 - 31(Original). The method of claim 29, further including the steps of:
- d3) determining if the server with the fastest connection speed had an error before the file was downloaded;
- d4) when the server with the fastest connection speed had an error before the file was downloaded, selecting a second server;
 - d5) determining a last byte received;
- d6) transmitting a download starting from a next byte command to a second server.
- 32(Original). The method of claim 25, wherein the step (d) further includes the steps of:
- d1) when an available bandwidth is not less than a two times a connection speed, selecting a plurality of servers from the list of servers;
- d2) starting a plurality of simultaneous downloads from the plurality of servers.
 - 33(Original). The method of claim 32, further including the steps of:
- d3) determining if the client has received a complete version of the file from one of the plurality of servers;
- d4) when the client has received a complete version of the file from one of the plurality of servers, terminating a rest of the downloads.

- 34(Original). The method of claim 25, wherein the step (d) further includes the steps of:
- d1) when an available bandwidth is not less than a two times a connection speed, selecting a plurality of servers from the list of servers;
- d2) starting a plurality of simultaneous offset downloads from the plurality of servers.
 - 35(Original). The method of claim 34, further including the step of:
- d3) when a complete file can be formed from the plurality of simultaneous offset downloads, constructing a complete file.

36(Original). A method of operating a peer-to-peer network comprising the steps of:

- a) initiating a search from a first peer to the peer-to-peer network;
- b) receiving a list of peer servers, a plurality of associated file names, a plurality of file sizes, a plurality of bandwidths and a plurality of source nodes that meet a search query;
- c) determining a connection speed to each of the peer servers on the list of peer servers;
 - d) selecting a subset of the list of peer servers based on the connection speed;
- e) when an available bandwidth is less than a two times the connection speed, selecting a server with a fastest connection speed;
 - f) starting a download from the server with the fastest connection speed;
- g) determining if the server with the fastest connection speed had an error before the file was downloaded;
- h) when the server with the fastest connection speed had an error before the file was downloaded, selecting a second server;
 - i) determining a last byte received;
 - j) transmitting a download starting from a next byte command to a second server;
- k) when an available bandwidth is not less than a two times a connection speed, selecting a plurality of servers from the list of servers;
 - I) starting a plurality of simultaneous downloads from the plurality of servers;
- m) determining if the client has received a complete version of the file from one of the plurality of servers; and
- n) when the client has received a complete version of the file from one of the plurality of servers, terminating a rest of the downloads.